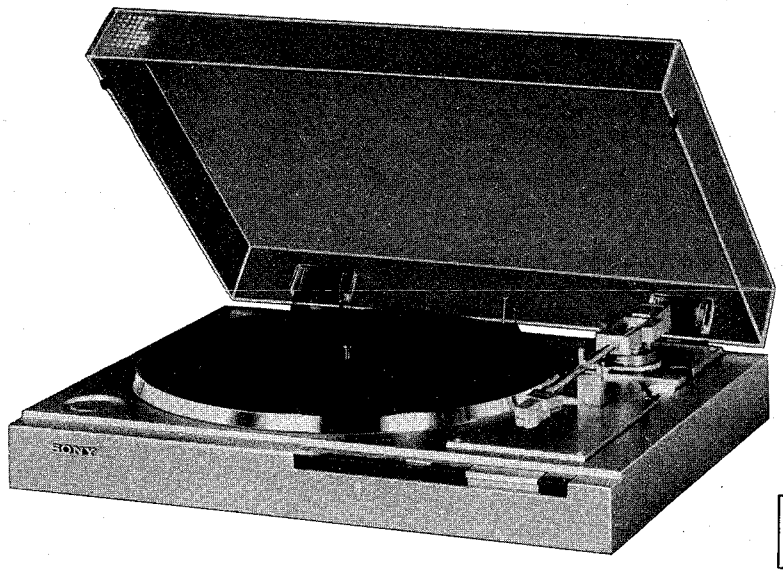
PS-LX210

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model



For UK model, silver type set is not provided with dust cover.

SPECIFICATIONS

Turntable

Platter	30.4 cm (12 in.), aluminum-alloy diecast
Motor	Linear torque BSL (brushless and slotless) motor
Drive system	Direct drive
Control system	FG servo control system
Speed	33⅓ rpm, 45 rpm
Starting characteristics	Comes to nominal speed within a half revolution (33⅓ rpm)
Wow and flutter	0.04% (WRMS)* 0.055% (WRMS) ±0.05 % (DIN)
Signal-to-noise ratio	72 dB (DIN-B)

Tonearm

Type	Statically balanced
Pivot-to-stylus length	216.5 mm (8⅝ in.)
Overhang	16.5 mm (21/32 in.)
Tracking error	+3°, −1°

Cartridge VL-42G

Type	Moving magnet type
Frequency response	20 Hz to 20 kHz
Channel separation	16 dB at 1 kHz
Output voltage	2.5 mV at 1 kHz, 5 cm/sec.
Load impedance	50 to 100 kilohms
Tracking force	1.5 to 2.5 g (2 g recommended)
Stylus	Sony ND-142G (Conical 0.6 mil diamond)

General

Power requirements	US, Canadian model: 120 V ac, 60 Hz AEP model: 220 V ac UK model: 240 V ac E model: 110–120 V or 220–240 V ac adjustable, 50/60 Hz

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MICROFILM

STEREO TURNTABLE SYSTEM

SONY®

AUD

Power consumption	5 W
Dimensions	Approx. 430 × 110 × 355 mm (w/h/d) (17 × 4 3/8 × 14 in.) including projecting parts and controls
Weight	Approx. 4 kg (8 lbs 13 oz), net Approx. 4.3 kg (9 lbs 8 oz), in shipping carton

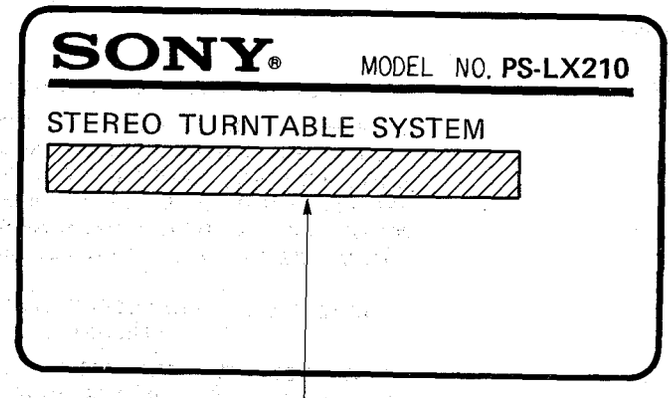
* This new measuring method concerns only the turntable assembly, including the platter. It excludes wow and flutter caused by the tonearm, the cartridge, or the record. Measured by obtaining signal from magnetic pick-up head.

FEATURES

- The linear torque BSL (brushless and slotless) direct drive servo motor has a high signal-to-noise ratio.
- The low-mass tonearm and cartridge allow the stylus to track with greater accuracy.
- Disc centering guides facilitate placing a 30 cm record over the center spindle.
- The turntable has resilient feet that isolate the mechanism from external shock and vibration.

MODEL IDENTIFICATION

— Specification Label —



US, Canadian model:	AC: 120V ~ 60Hz 5W
AEP model:	AC: 220V ~ 50/60Hz 5W
UK model:	AC: 240V ~ 50/60Hz 5W
E model:	AC: 110–120V, 220–240V ~ 50/60Hz 5W

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

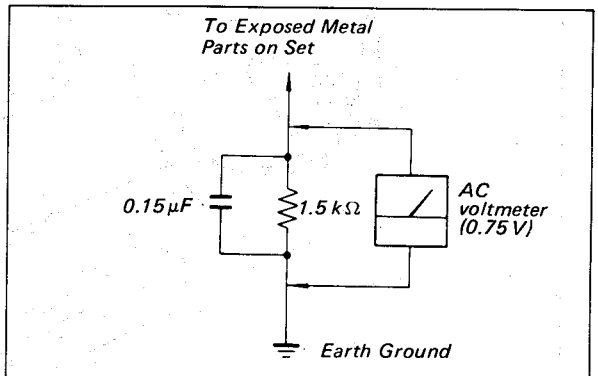
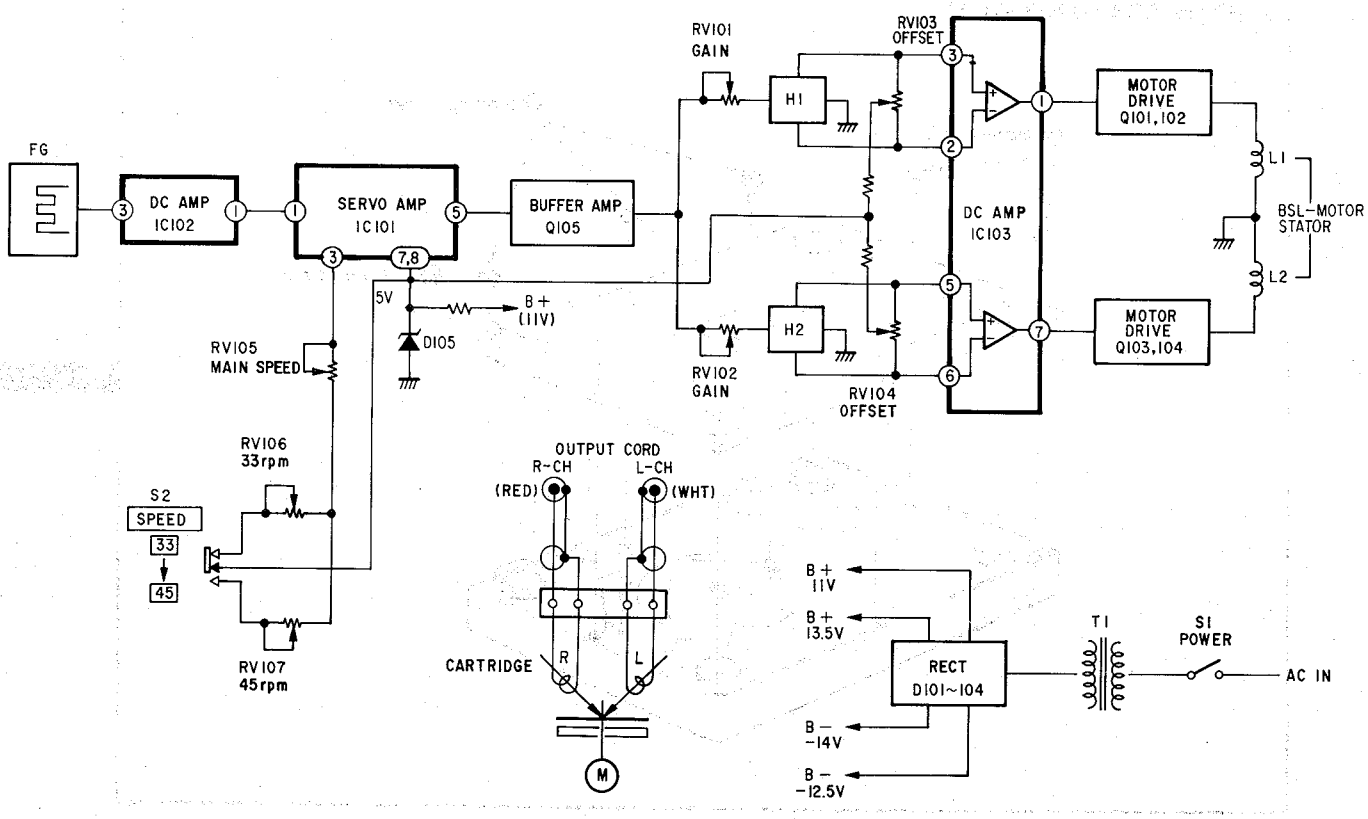


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

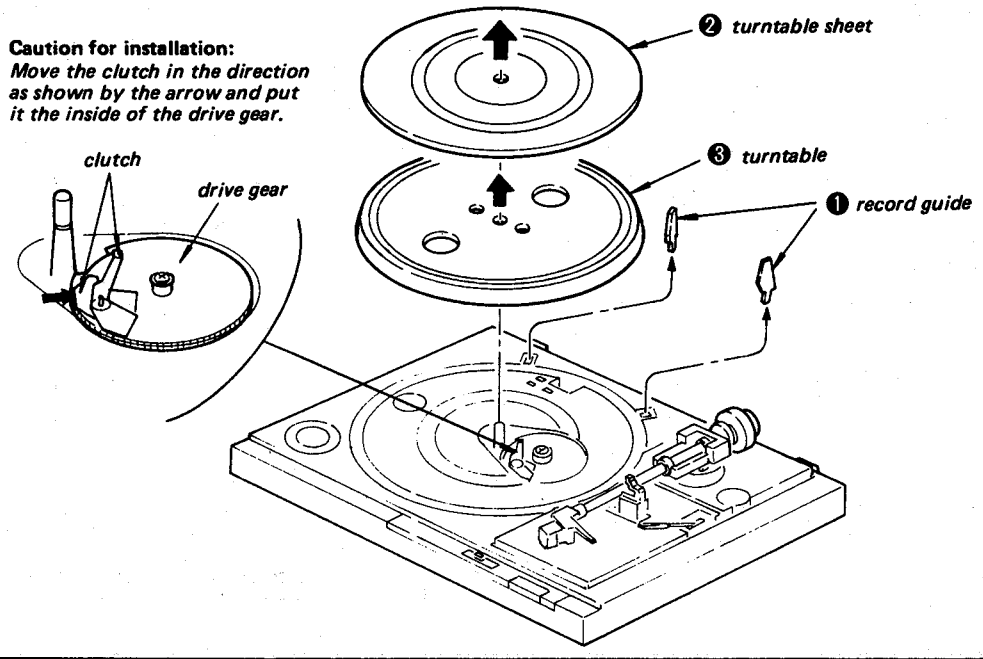


SECTION 2
DISASSEMBLY

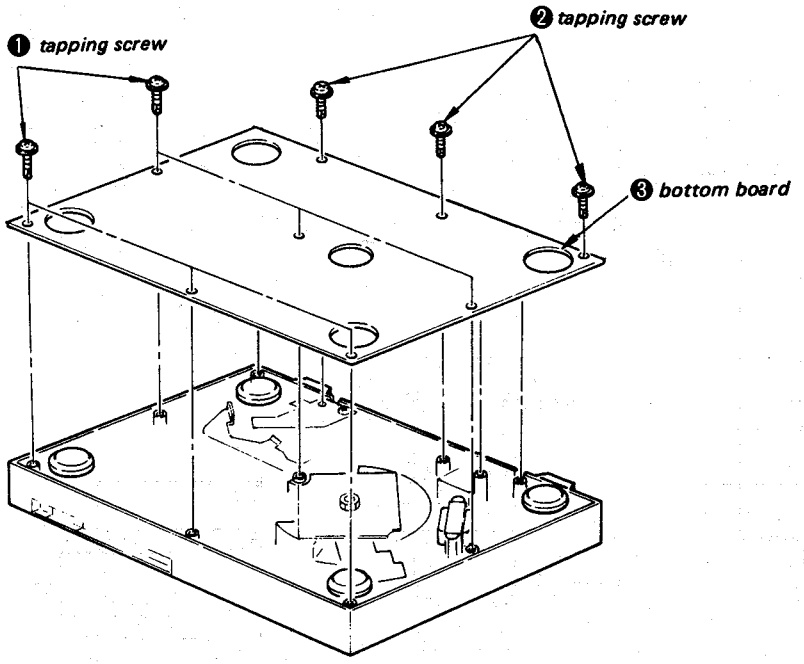
Note:

- Follow the disassembly procedure in the numerical order given.
- Be sure to note the parts placements/positionings of each other before disassembling them part.

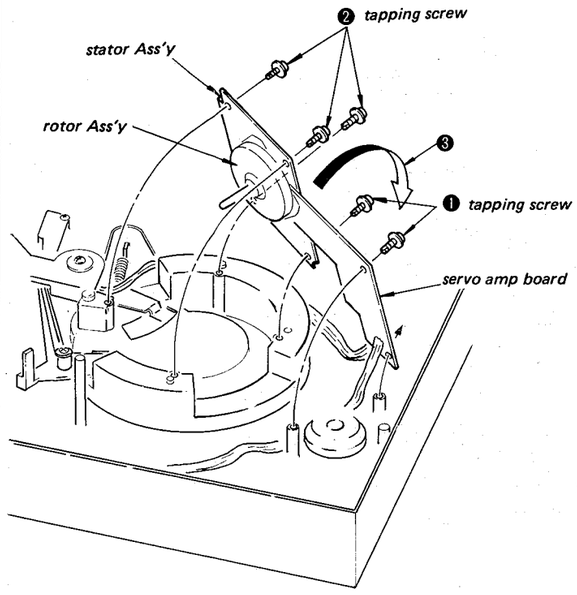
TURNTABLE REMOVAL

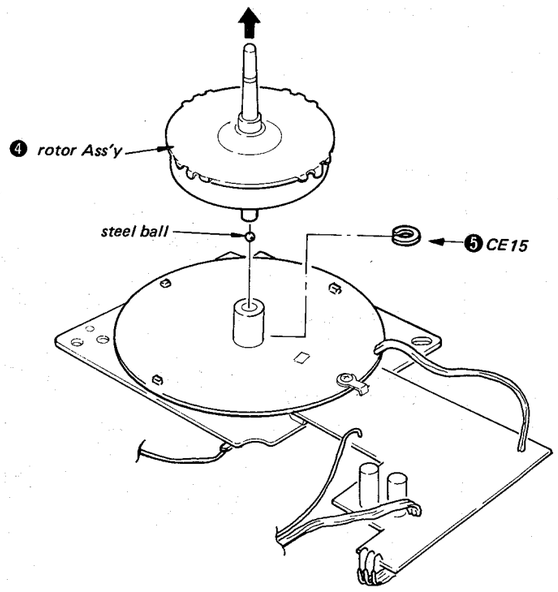

Caution for installation:
Move the clutch in the direction as shown by the arrow and put it the inside of the drive gear.
clutch
drive gear
❷ turntable sheet
❸ turntable
❶ record guide

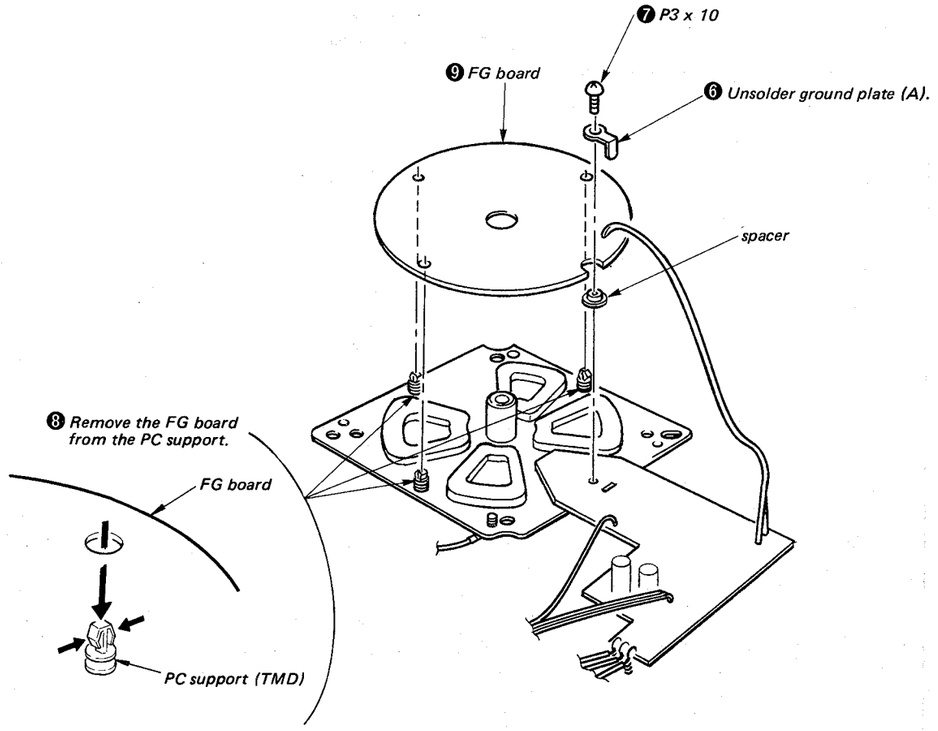
BOTTOM BOARD REMOVAL



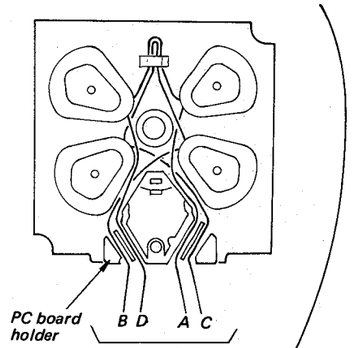
SERVO AMP BOARD / STATOR ASS'Y / ROTOR ASS'Y REMOVAL

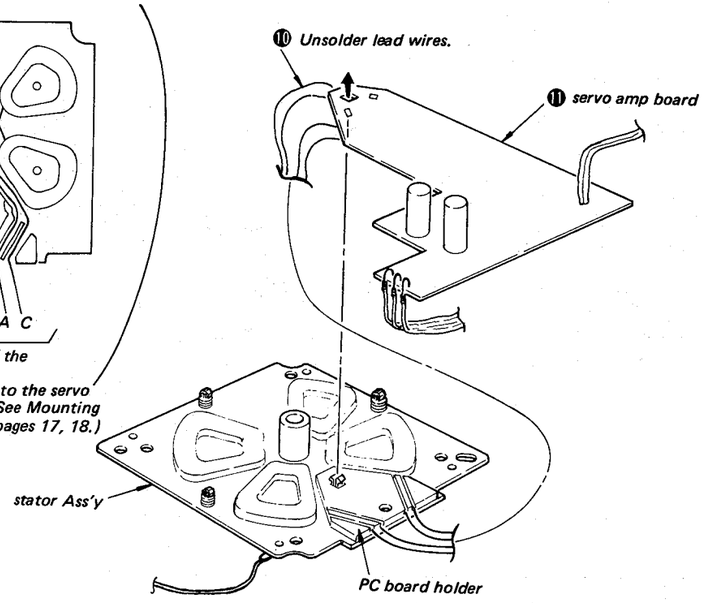


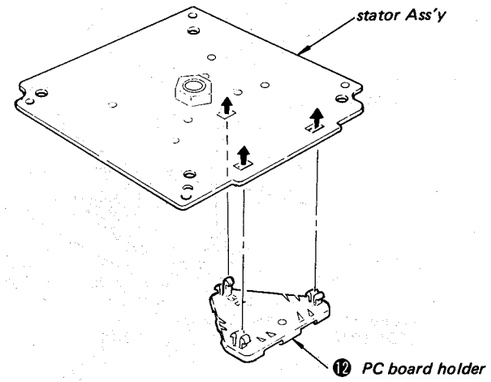




When installing, run the lead wires of the motor coil through the grooves of the PC board holder.

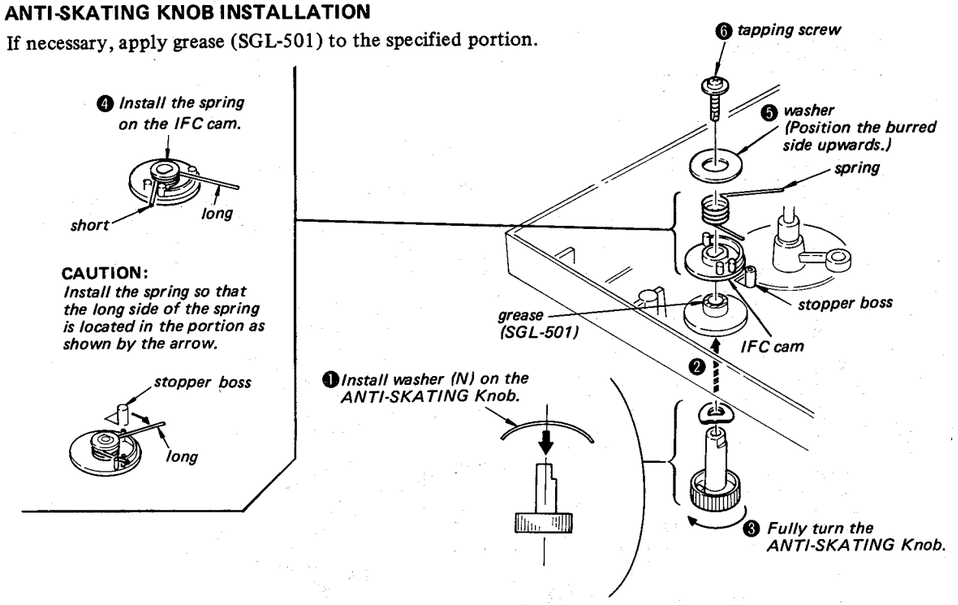






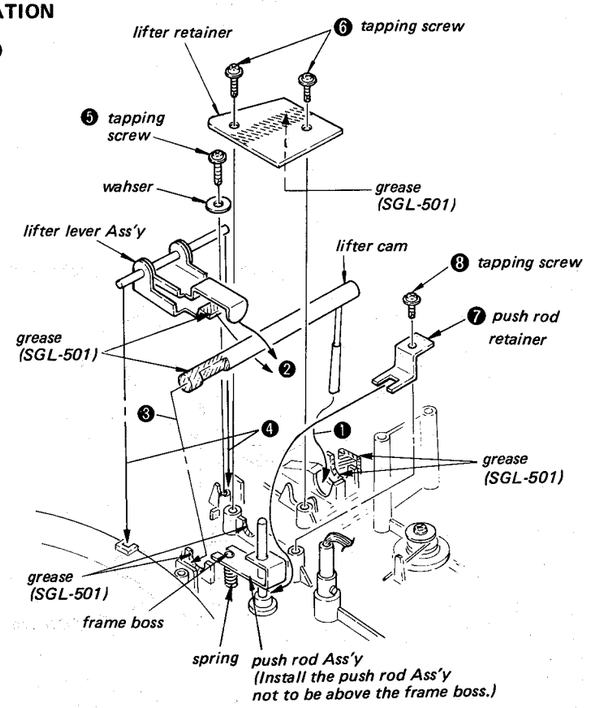
ANTI-SKATING KNOB INSTALLATION

If necessary, apply grease (SGL-501) to the specified portion.


❹ Install the spring on the IFC cam.
short
long
CAUTION:
Install the spring so that the long side of the spring is located in the portion as shown by the arrow.
stopper boss
long
❻ tapping screw
❺ washer (Position the burred side upwards.)
spring
stopper boss
grease (SGL-501)
IFC cam
❷
❶ Install washer (N) on the ANTI-SKATING Knob.
❸ Fully turn the ANTI-SKATING Knob.

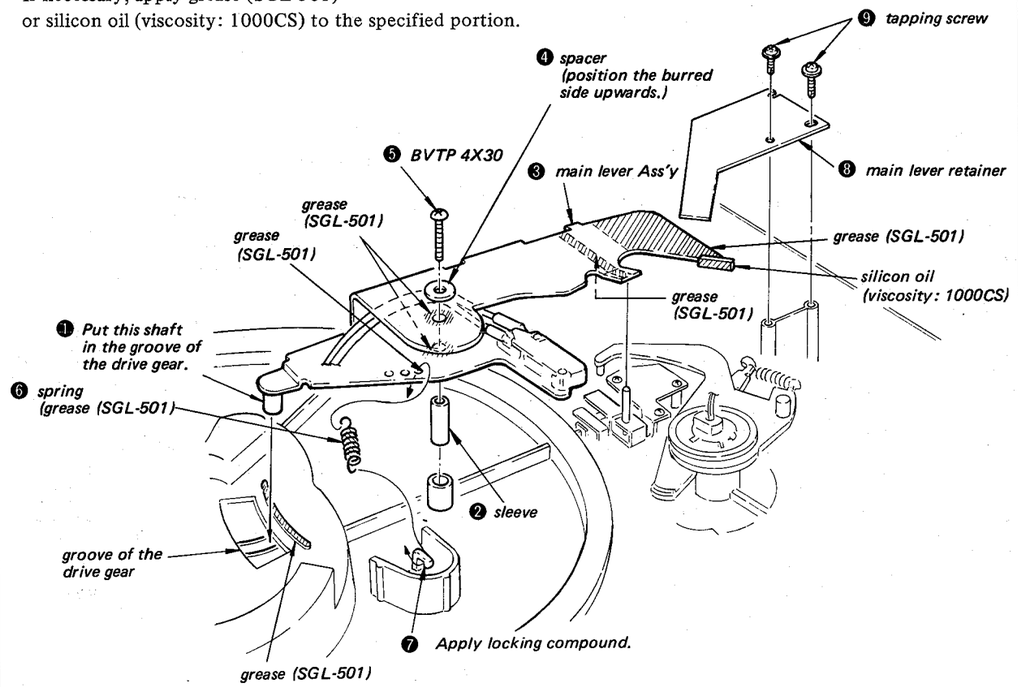
LIFTER LEVER ASS'Y INSTALLATION

If necessary, apply grease (SGL-501) to the specified portion.

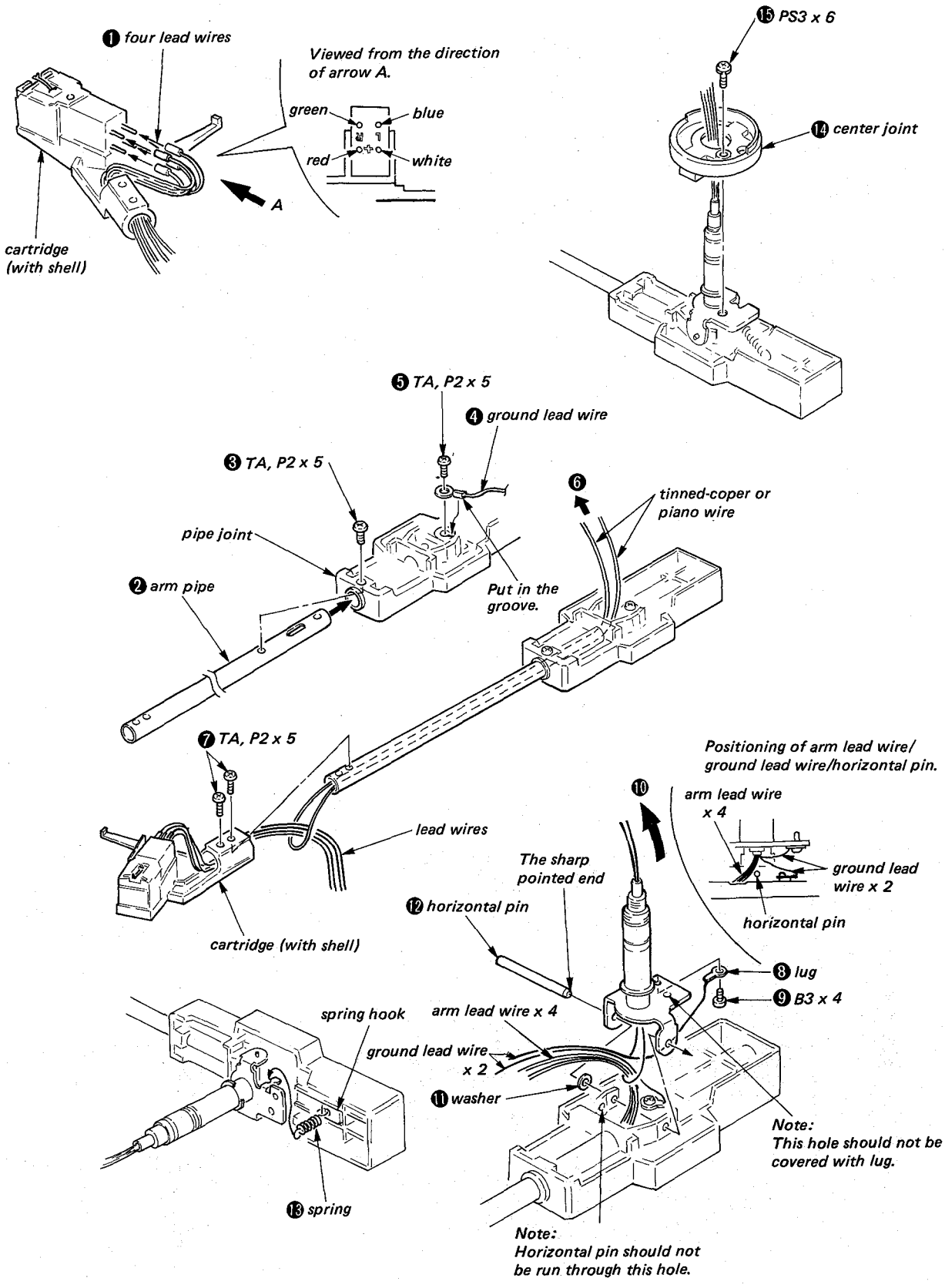


MAIN LEVER INSTALLATION

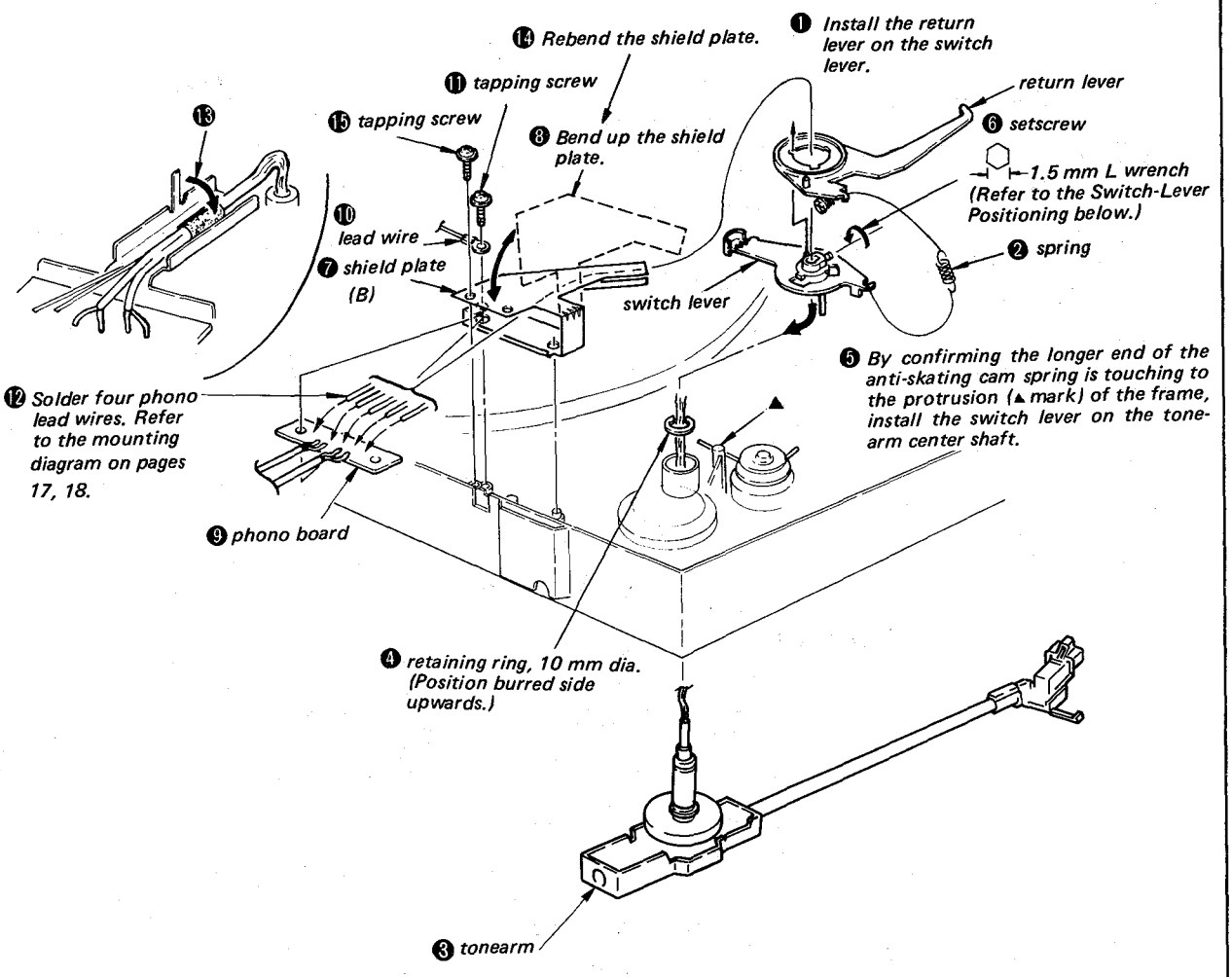
If necessary, apply grease (SGL-501) or silicon oil (viscosity: 1000CS) to the specified portion.

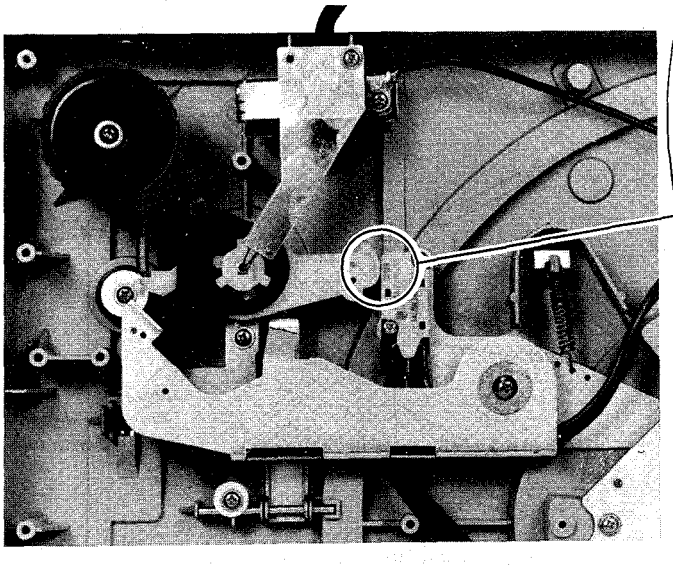


ASSEMBLING THE TONEARM



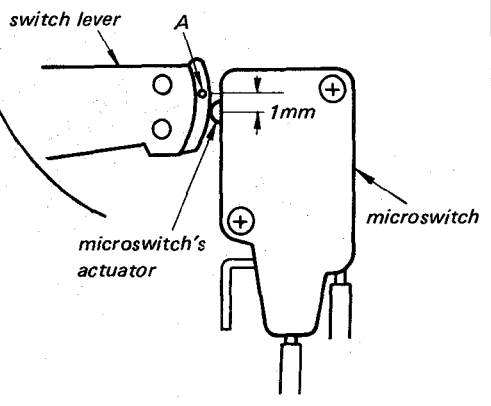
TONEARM INSTALLATION


❶ Install the return lever on the switch lever.
⓮ Rebend the shield plate.
⓫ tapping screw
⓯ tapping screw
❽ Bend up the shield plate.
return lever
❻ setscrew
1.5 mm L wrench (Refer to the Switch-Lever Positioning below.)
❷ spring
⓭
⓾ lead wire
❼ shield plate (B)
switch lever
❺ By confirming the longer end of the anti-skating cam spring is touching to the protrusion (▲ mark) of the frame, install the switch lever on the tone-arm center shaft.
⓬ Solder four phono lead wires. Refer to the mounting diagram on pages 17, 18.
❾ phono board
❹ retaining ring, 10 mm dia. (Position burred side upwards.)
❸ tonearm



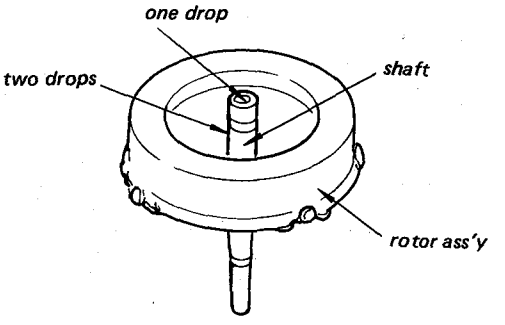
Switch-Lever Positioning:

1. Place the tonearm on the tonearm rest.
2. Position the drive gear to the rest mode.
3. Position the part A of the switch lever 1mm off the microswitch's actuator as shown in the figure and tighten the set screw securely.

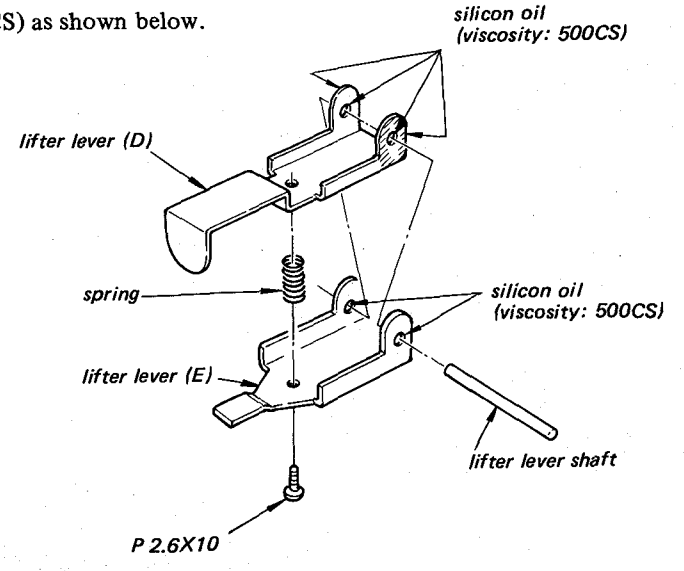


LUBRICATION

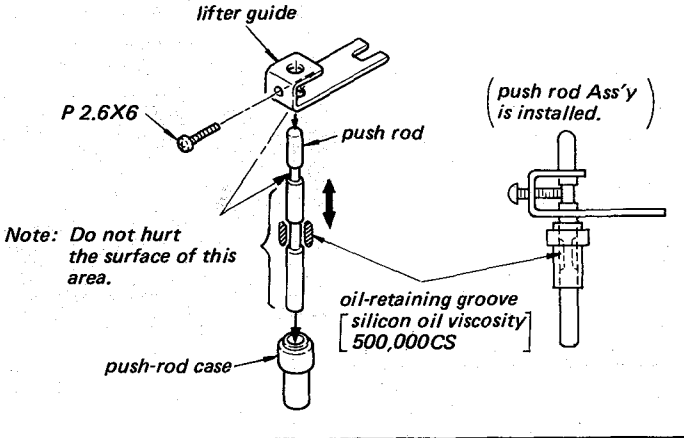
1. When the motor rotor ass'y is replaced, apply Sony oil OL-2KA to the rotor shaft as illustrated below.



2. When replacing the lifter lever (D) or (E), apply silicon oil (viscosity: 500CS) as shown below.



3. Lubrication for push rod
   CAUTION:
   When lubricating, rotate and move the push rod up and down a few times.

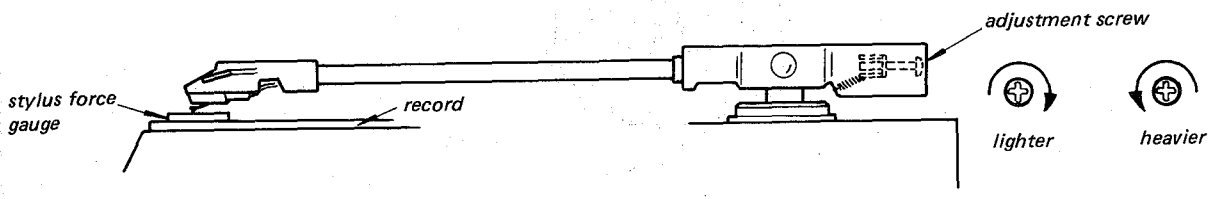


SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

Stylus Force Adjustment

1. Turn the adjustment screw to obtain zero balance.
2. Turn the adjustment screw again so that the stylus force becomes 2g on the stylus force gauge.

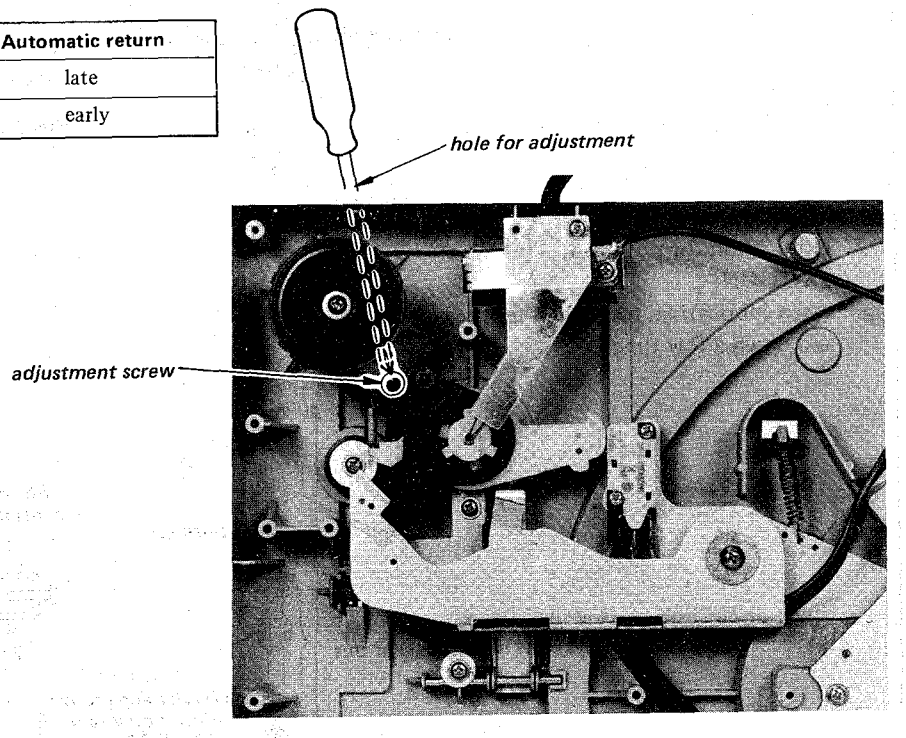


Automatic Return Position Adjustment

1. Reject the tonearm by REJECT button.
2. Bring the tonearm to the automatic-return test groove (inside portion) of the test record (YFSC-16), and adjust the screw for making the tonearm return at count 3 to 12.

Turning direction	Automatic return
clockwise	late
counterclockwise	early

Note: The normal auto-return position is between 59 mm (2-3/8") and 64 mm (2-1/2") from the center of the center shaft.



Tonearm Height Adjustment

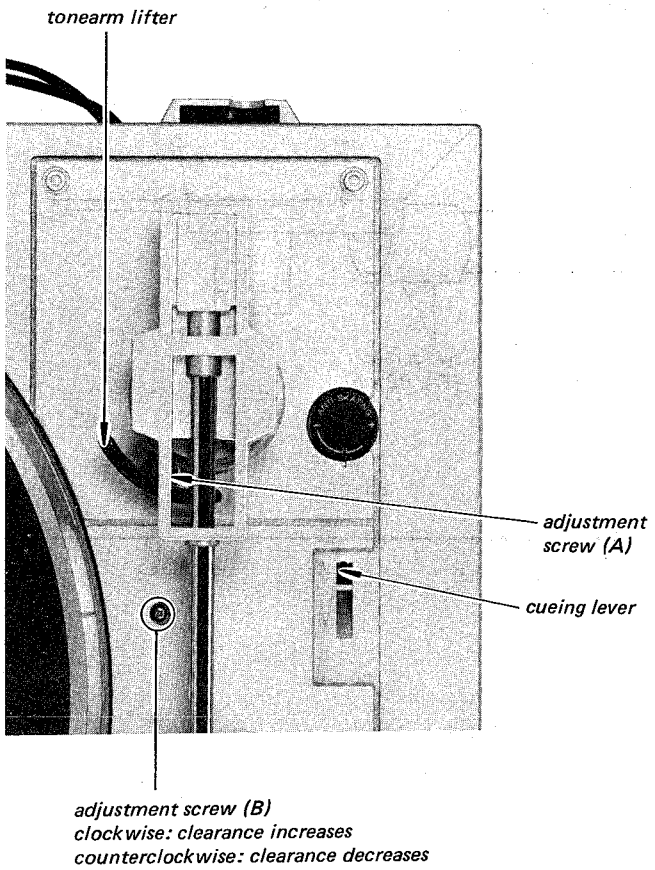
Note: Perform both adjustments A) and B).

A)

1. Loosen the adjustment screw (A).
2. Bring the tonearm toward the inner of the record and put the stylus in the last groove of the record.
3. Push the REJECT button and slowly turn the turntable by hand to lift the tonearm.
4. Adjust the height of the tonearm lifter by turning the adjustment screw (A) so that the clearance between the stylus tip and the record is approx. 6mm (1/4") to 12mm (15/32").
5. After the adjustment, make sure by turning the turntable by hand that the tonearm smoothly returns to the tonearm rest.

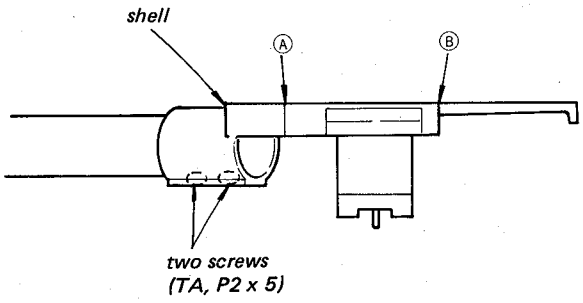
B)

1. Make a lifter up mode by lifting up the cueing lever.
2. Bring the tonearm to the outer-most record groove. With this condition, adjust the adjustment screw (B) so that the clearance between the stylus tip and the record surface becomes in 6mm (3/16") to 12mm (15/32").
3. Move the tonearm to the inner-most groove. In this condition, the clearance between the stylus tip and the record surface should also be 6mm (1/4") to 12mm (15/32").
4. The clearance difference between adjustment A) and adjustment B)-3 should be less than 4mm (3/16").
5. After the adjustment, lock the adjustment screw (B) with locking compound.



Shell's Horizontal Balance Adjustment

Loosen the two screws and adjust shell so that point Ⓐ and point Ⓑ become horizontal.

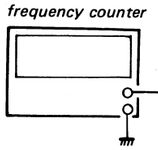


3-2. ELECTRICAL ADJUSTMENTS

Speed Adjustment

Note: Use a small-blade screwdriver for the adjustments.

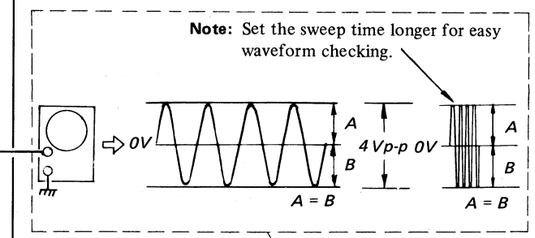
1. Connect a frequency counter to pin (1) of IC102.
2. Turn the power switch (S1) on.

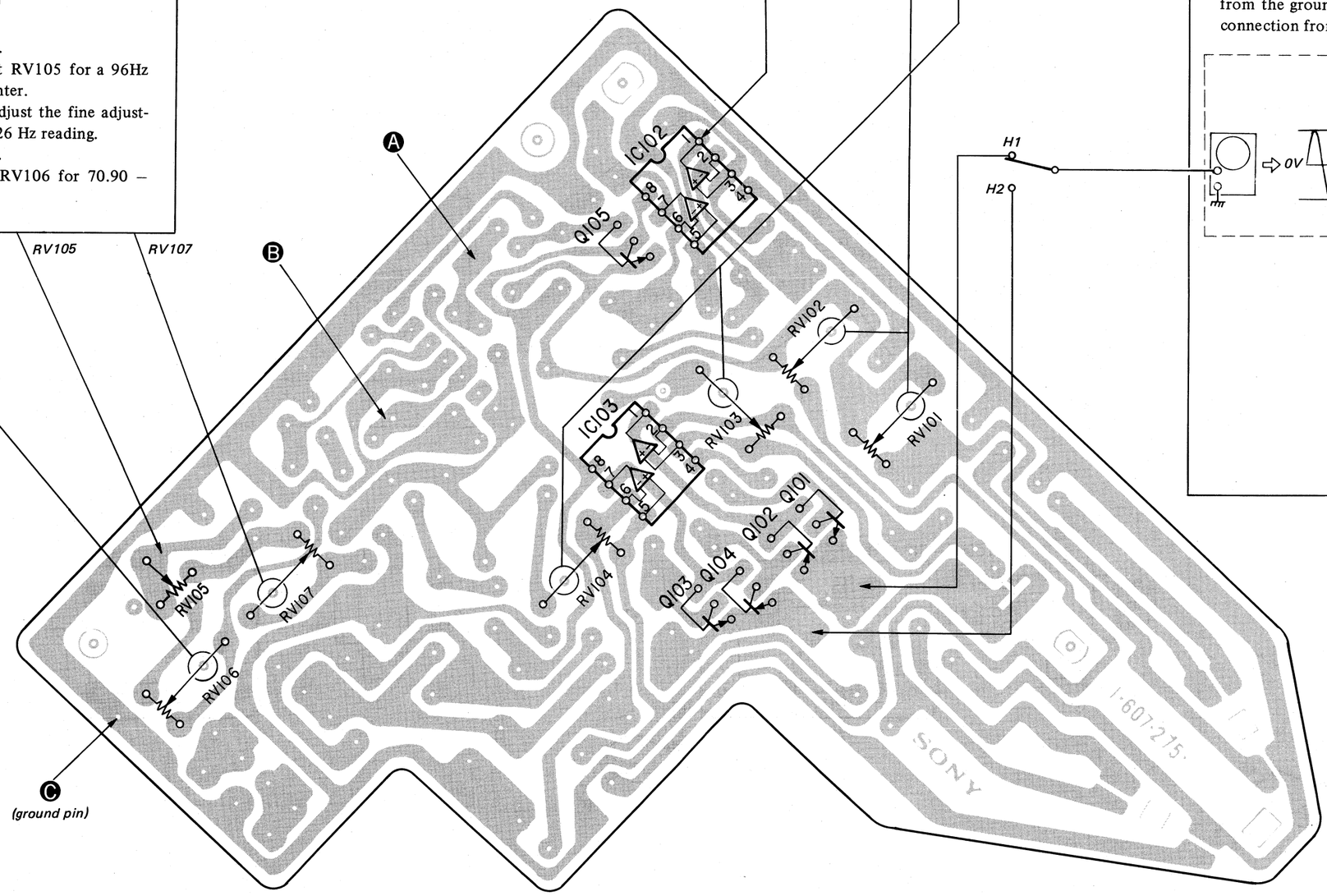


3. Turn the SPEED switch to 45.
4. Adjust the coarse adjustment RV105 for a 96Hz reading on the frequency counter.
   If it is not obtained 96Hz, adjust the fine adjustment RV107 for 95.72 – 96.26 Hz reading.
5. Turn the SPEED switch to 33.
6. Adjust the fine adjustment RV106 for 70.90 – 71.32Hz reading.

Gain/Offset Adjustments

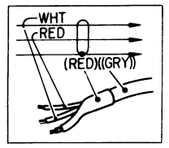
1. Connect the pattern Ⓑ to the ground pin Ⓒ, and apply a 1V dc to the pattern Ⓐ.
2. Turn the power switch (S1) on.
3. Adjust the gain adjustment RV101 at the switch position H1 for a 4 Vp-p reading on the oscilloscope.
4. Adjust the gain adjustment RV102 at H2 for a 4 Vp-p reading.
5. Adjust the offset adjustment RV103 at H1 for a 0V dc centering on the waveform.
6. Adjust the offset adjustment RV104 at H2 for a 0V dc centering.
7. After the adjustments, disconnect the pattern Ⓑ from the ground pin Ⓒ and remove the dc-voltage connection from the pattern Ⓐ.





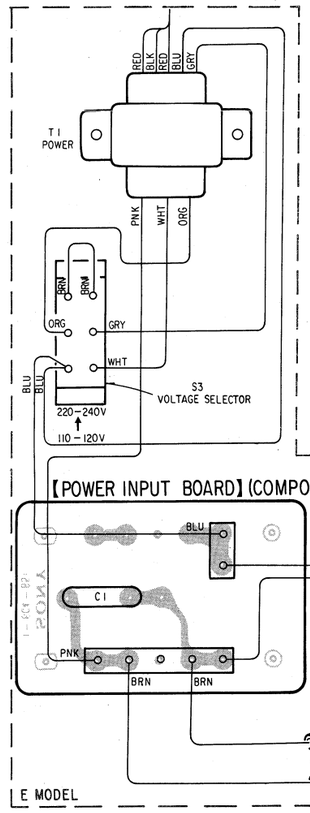
Note:

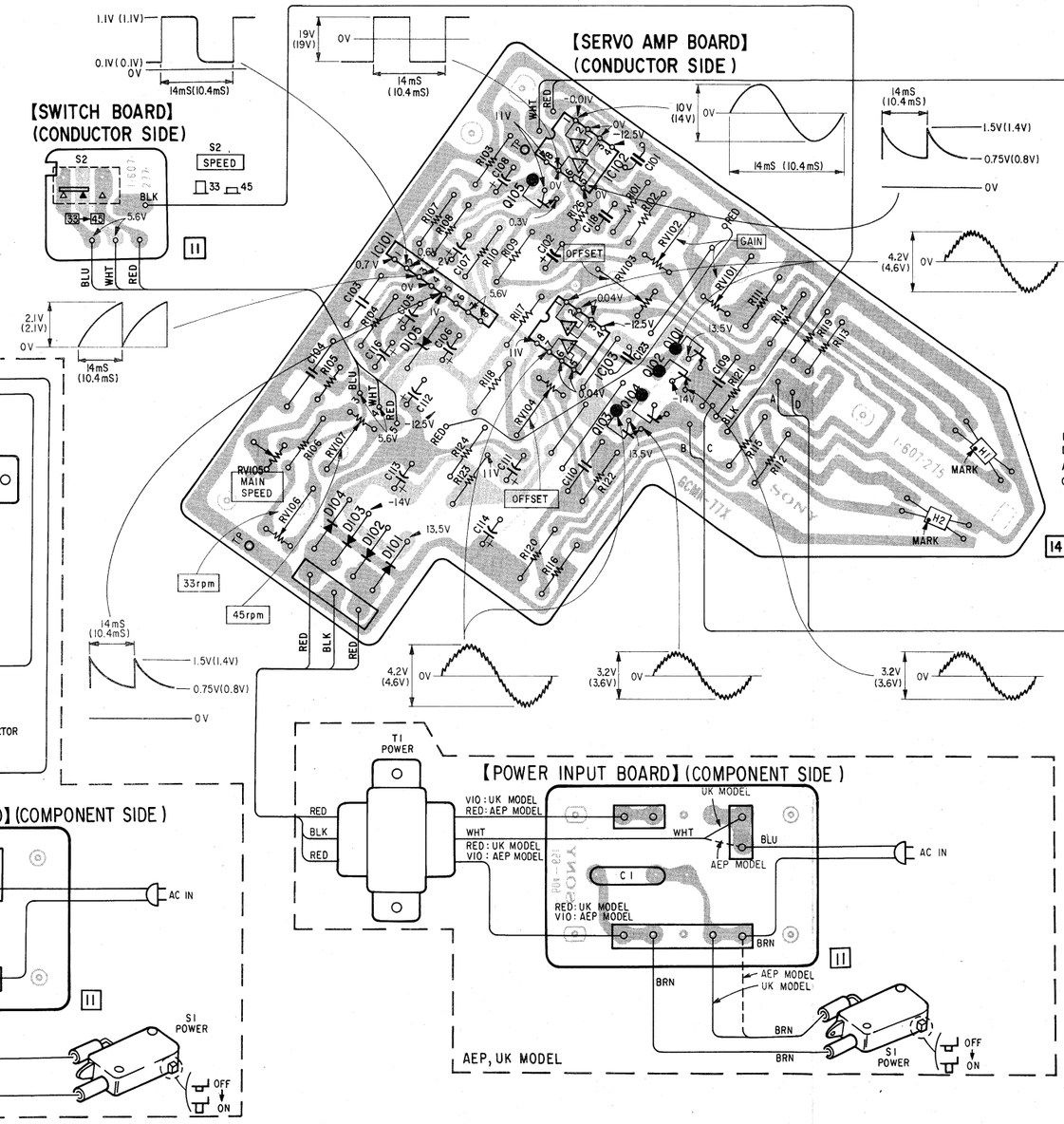
- Color code of sleeving over the end of the jacket.

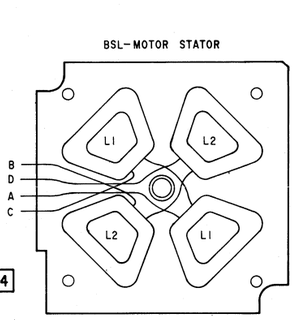


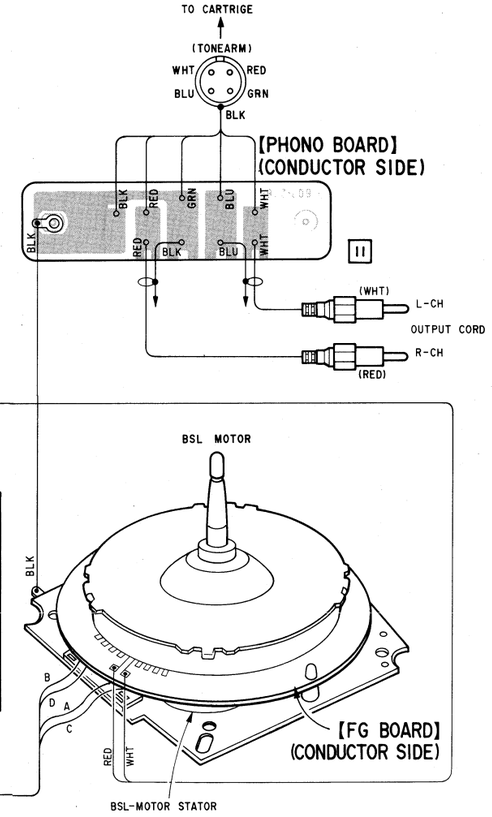
- ▒▒▒ : B + pattern

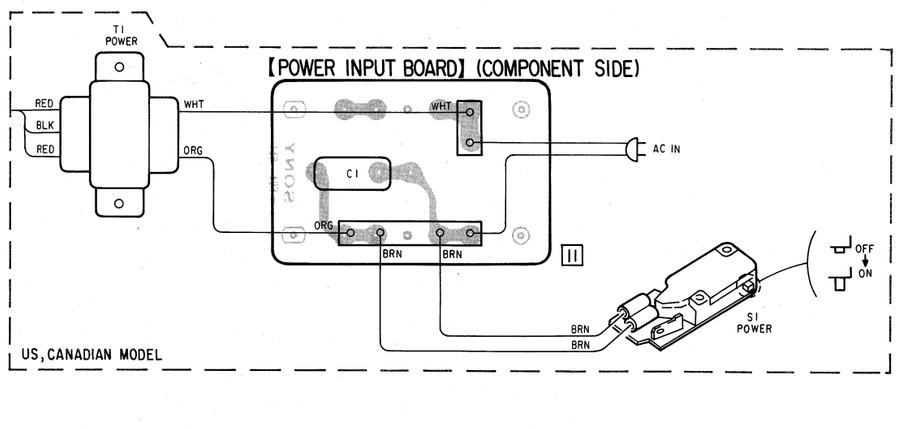
Q IC	105 103 104 102 101 IC101 IC102 IC103
D	104 102 105 103 101



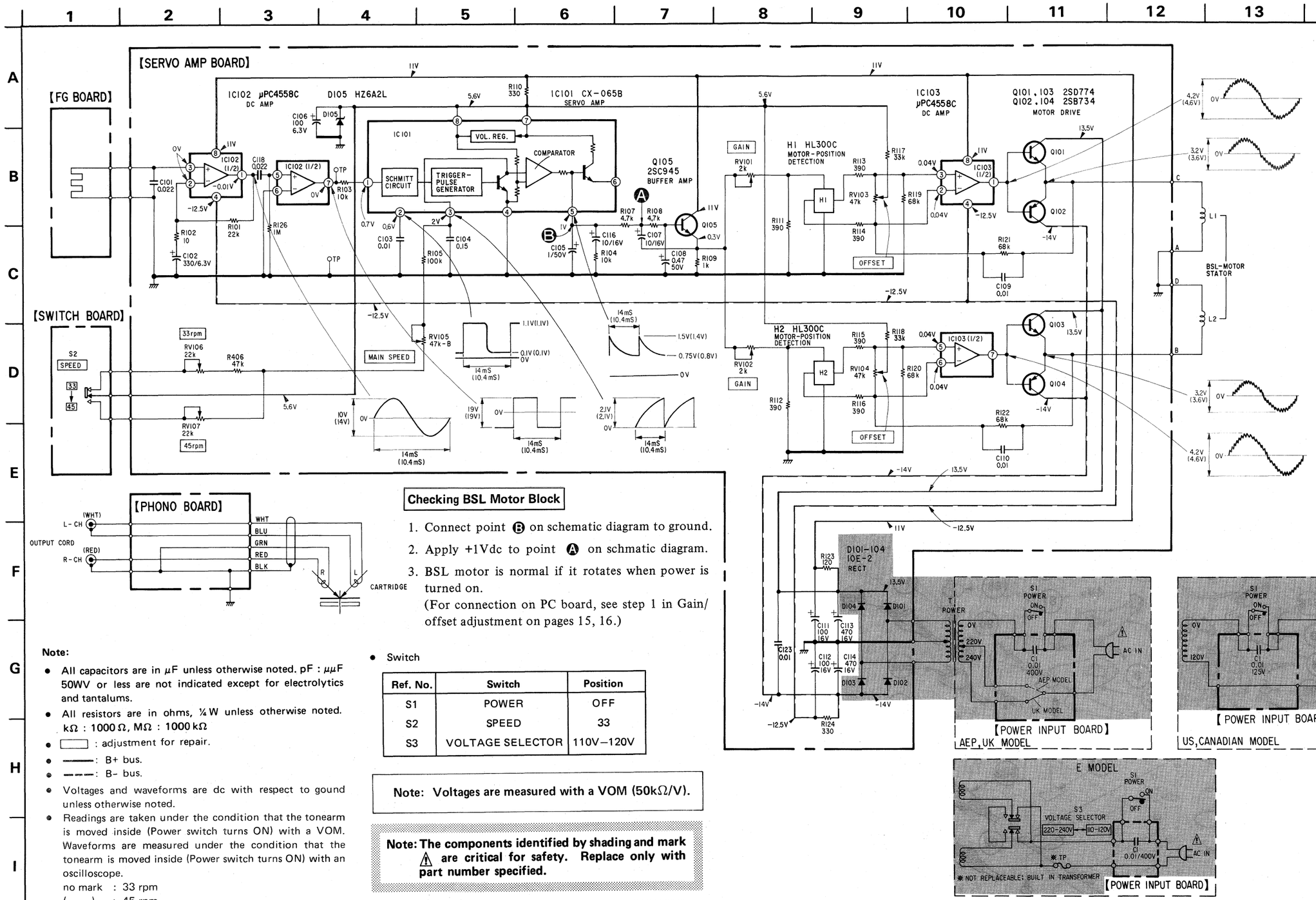








4-2. SCHEMATIC DIAGRAM



Checking BSL Motor Block

1. Connect point Ⓑ on schematic diagram to ground.
2. Apply +1Vdc to point Ⓐ on schmatic diagram.
3. BSL motor is normal if it rotates when power is turned on.
   (For connection on PC board, see step 1 in Gain/offset adjustment on pages 15, 16.)

Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ▭ : adjustment for repair.
- ——: B+ bus.
- – – –: B- bus.
- Voltages and waveforms are dc with respect to gound unless otherwise noted.
- Readings are taken under the condition that the tonearm is moved inside (Power switch turns ON) with a VOM. Waveforms are measured under the condition that the tonearm is moved inside (Power switch turns ON) with an oscilloscope.
  no mark : 33 rpm
  ( ) : 45 rpm
- Voltage variations may be noted due to normal production tolerances.

- Switch

Ref. No.	Switch	Position
S1	POWER	OFF
S2	SPEED	33
S3	VOLTAGE SELECTOR	110V–120V

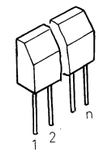
Note: Voltages are measured with a VOM (50kΩ/V).

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

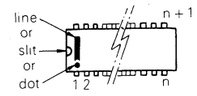
Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Semiconductor Lead Layouts

CX065B

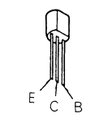


μPC4558C

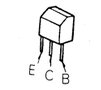


(Top view)

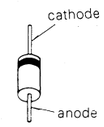
2SC945
2SC1364



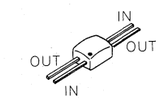
2SB734
2SD774



10E-2
HZ6A2L

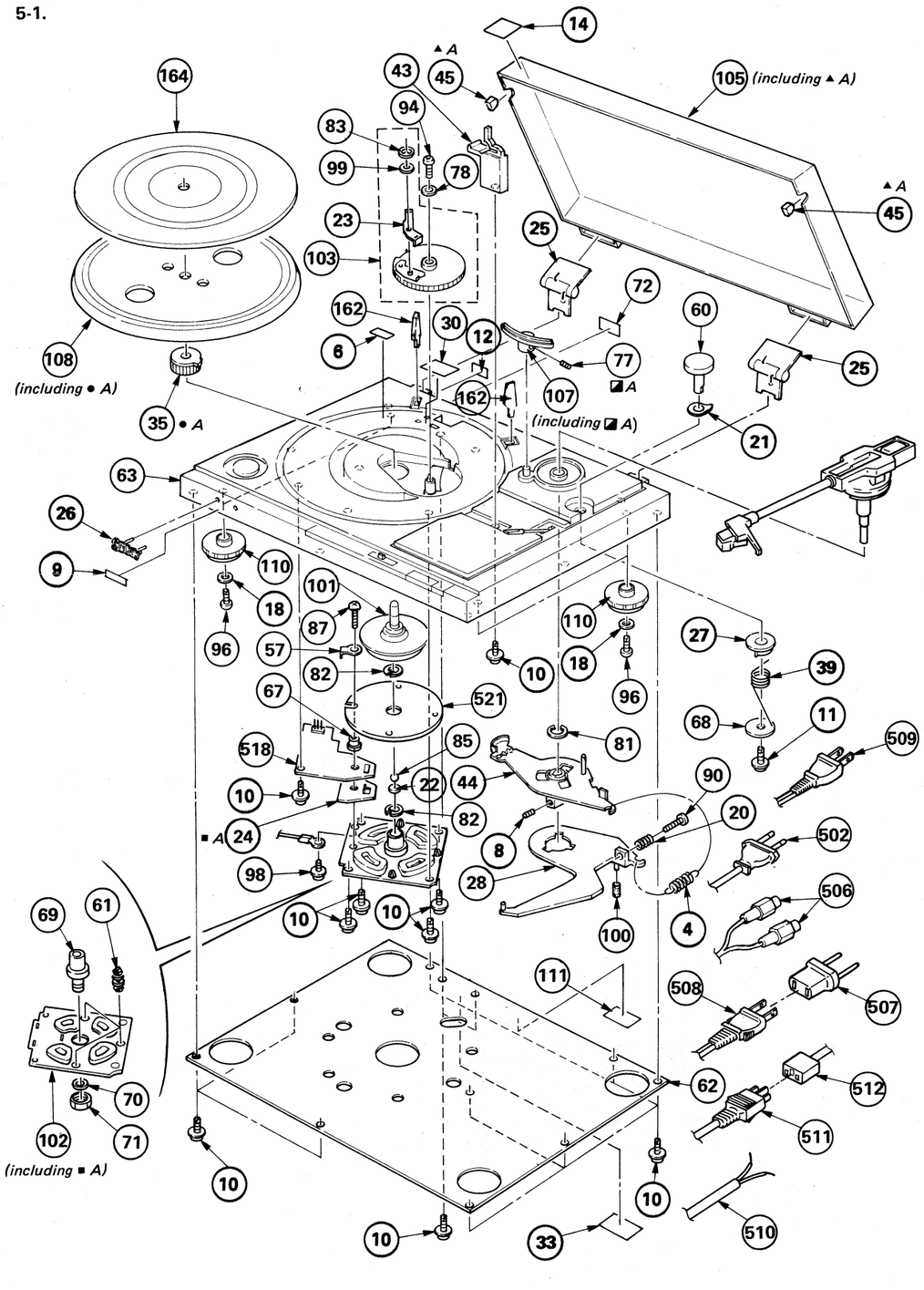


HL300C

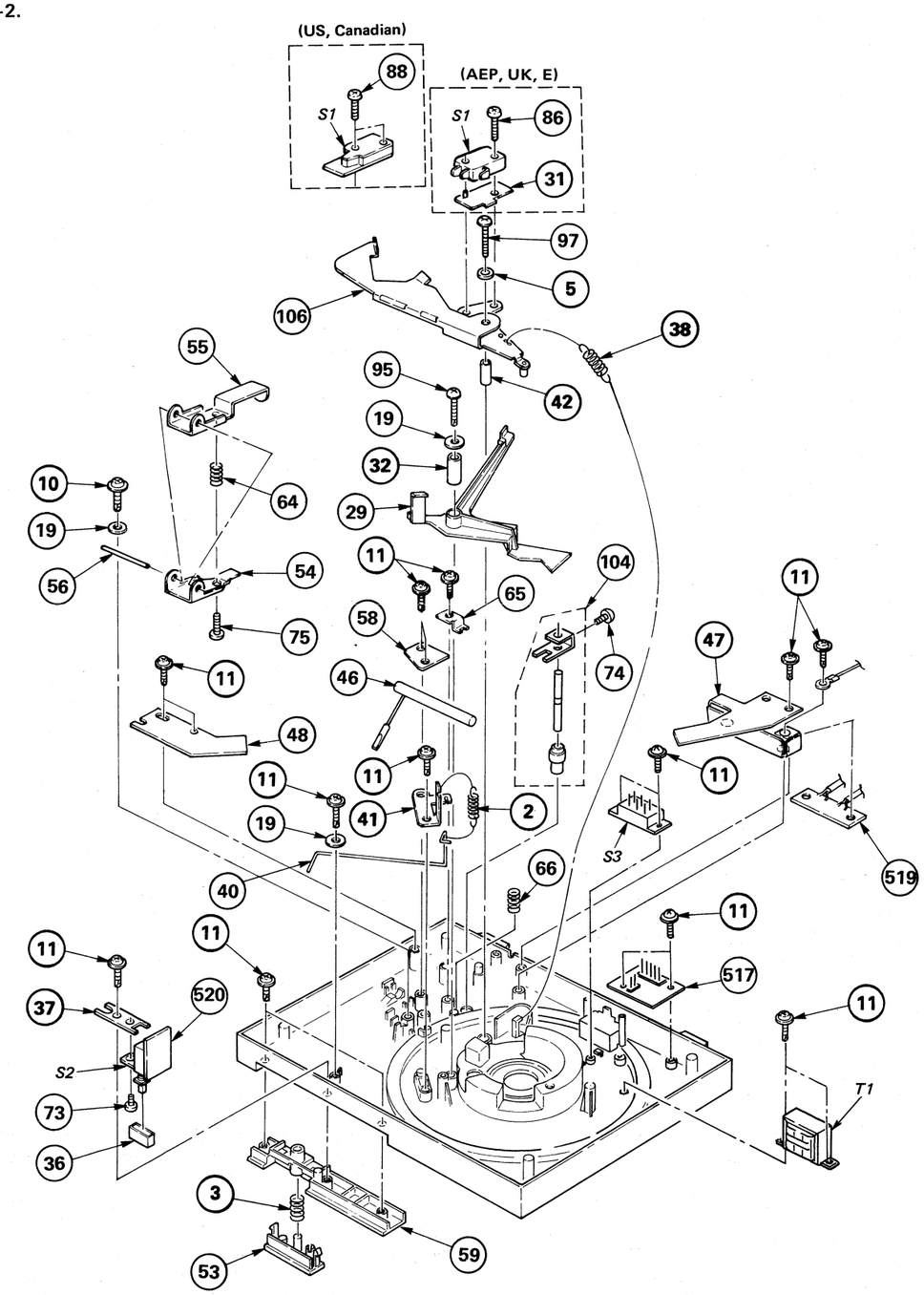


SECTION 5
EXPLODED VIEWS AND PARTS LIST

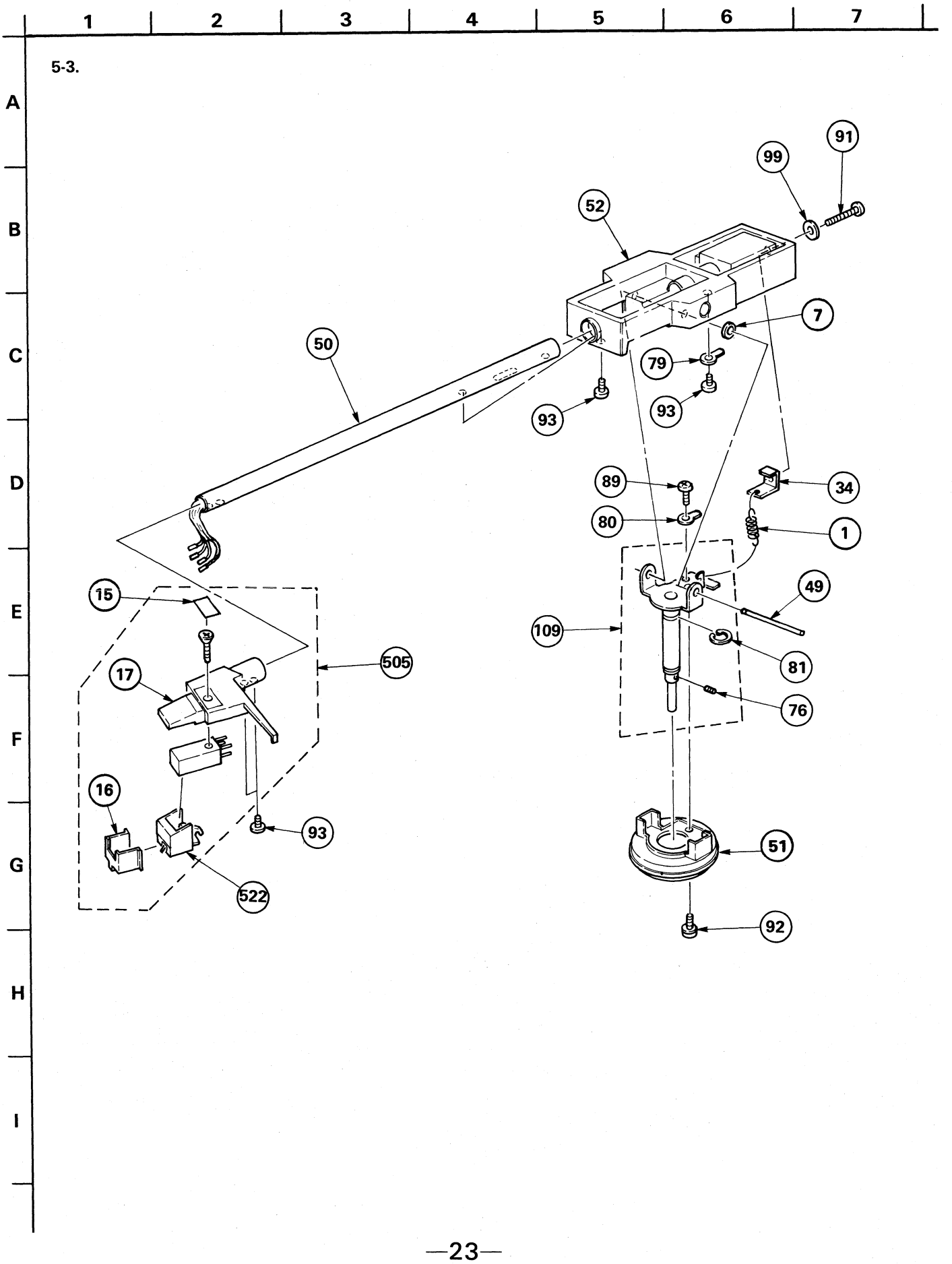
5-1.



5-2.



5-3.


1
2
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A
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C
D
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F
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50
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109
505
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81
76
16
93
51
522
92

GENERAL SECTION

No.	Part No.	Description
1	3-465-159-XX	SPRING, TENSION
2	3-491-240-00	SPRING, TENSION
3	3-533-014-00	SPRING, COMPRESSION
4	3-536-780-00	SPRING, TENSION
5	3-610-931-11	SPACER, SHAFT, DRUM, HEAD
6	3-701-030-00	LABEL, SERIAL NUMBER
7	3-701-437-01	WASHER
8	3-701-508-00	SET SCREW, DOUBLE POINT 3X6
9 ♦	3-701-690-00	(UK).....LABEL (MADE IN JAPAN)
10	3-703-136-00	SCREW, TAPPING
11	3-703-137-00	SCREW, TAPPING
12	3-703-208-11	(US)....LAVEL, IDENTIFICATION
13	.....	
14	3-703-705-01	STICKER, SONY SYMBOL (30)
15 ♦	3-706-612-00	LABEL, CARTRIDGE
16	3-706-613-00	PROTECTOR
17 ♦	3-706-614-00	SHELL
18 ♦	4-301-647-00	WASHER, SPECIAL
19	4-812-554-00	WASHER
20	4-836-836-00	SPRING, COMPRESSION
21	4-844-041-00	WASHER, (N)
22	4-852-007-00	RETAINER (A), THRUST
23	4-852-013-05	CLUTCH (A)
24	4-857-642-00	HOLDER, PC BOARD
25	4-857-653-00	(US,Canadian,AEP,E,UK:BLACK) ...HINGE, DUST COVER
26	4-857-661-11	EMBLEM, SONY
27	4-858-229-00	CAM, IFC
28 ♦	4-858-234-00	LEVER, RETURN
29 ♦	4-858-240-00	LEVER (M), CLUTCH
30	4-858-264-21	LABEL, CAUTION
31 ♦	4-858-268-00	SHEET, INSULATING
32	4-861-933-00	SLEEVE (D)
33	4-866-073-01	(AEP)....LABEL, CAUTION, AC CORD
34	4-868-016-00	HOOK, SPRING
35	4-868-052-00	GEAR, CENTER
36	4-870-730-11	KNOB, SPEED
37 ♦	4-870-746-00	BRACKET, SWITCH
38	4-870-785-00	SPRING, TENSION (MAIN LEVER)
39	4-874-250-00	SPRING
40	4-875-204-00	SPRING
41 ♦	4-875-205-00	PLATE, FIXED
42	4-875-207-00	SLEEVE
43	4-875-208-00	(SILVER)....REST, ARM
43	4-875-208-31	(BLACK).....REST, ARM

GENERAL SECTION

No.	Part No.	Description
44	4-875-214-00	LEVER, SWITCH
45	4-876-304-00	CUSHION, DUST COVER
46	4-877-824-00	CAM, LIFTER
47 ♦	4-877-839-00	PLATE (B), SHIELD
48 ♦	4-877-854-00	RETAINER, MAIN LEVER
49	4-880-619-00	PIN, HORIZONTAL
50	4-880-623-00	PIPE, ARM
51	4-880-631-00	JOINT, CENTER
52	4-880-635-00	JOINT, PIPE
53	4-881-608-00	KNOB, REJECT
54 ♦	4-881-609-00	LEVER (E), LIFTER
55 ♦	4-881-610-00	LEVER (D), LIFTER
56 ♦	4-881-611-00	SHAFT, LEVER, LIFTER
57 ♦	4-881-629-00	PLATE (A), GROUND
58 ♦	4-881-631-00	RETAINER, LIFTER
59	4-881-632-21	(SILVER)....PANEL, FRONT
59	4-881-632-31	(BLACK).....PANEL, FRONT
60	4-881-633-00	KNOB (I), IFC
61	4-881-636-11	SUPPORT (TMD), PC
62 ♦	4-881-637-00	BOARD, BOTTOM
63	4-881-638-11	(AEP/UK:BLACK).....FRAME
63	4-881-638-31	(US/Canadian:BLACK)....FRAME
63	4-881-638-41	(AEP/UK/E:SILVER).....FRAME
63	4-881-638-51	(US/Canadian:SILVER)...FRAME
64	4-881-642-00	SPRING, COMPRESSION
65 ♦	4-881-650-00	RETAINER, PUSH ROD
66	4-881-651-00	SPRING, COMPRESSION
67	4-885-727-00	SPACER
68	4-890-173-00	WASHER
69	4-903-304-01	BEARING
70	4-903-324-01	PACKING (TMD)
71 ♦	4-903-330-01	NUT (TMD), BEARING
72	4-903-601-01	(US,Canadian)...LABEL, MODEL NUMBER (U,C)
72	4-903-602-01	(AEP)....LABEL, MODEL NUMBER (AEP1)
72	4-903-603-01	(UK).....LABEL, MODEL NUMBER (UK)
72	4-903-604-01	(E).....LABEL, MODEL NUMBER (E2/3,PX1)
73	7-621-259-35	SCREW +P 2.6X5
74	7-621-259-45	SCREW +P 2.6X6
75	7-621-284-40	SCREW +P 2.6X10
76	7-621-712-26	SET-SCREW, SLOT 2.6X3 CUP POINT
77	7-621-738-08	SET-SCT, HEX. 2.6X4, FLAT POINT
78	7-623-105-16	W 2, MIDDLE
79	7-623-505-01	LUG, 2
80	7-623-508-01	LUG, 3
81	7-624-133-54	STOP RING 10, TYPE-CE

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

GENERAL SECTION

No.	Part No.	Description
82	7-624-133-94	STOP RING 15, TYPE-CE
83	7-624-190-81	STOP RING 2, TYPE-CS
84	.....	
85	7-671-156-01	BALL, STAINLESS
86	7-682-122-27	(AEP,UK,E).....SCREW +P 3X15
87	7-682-149-13	SCREW +P 3X10
88	7-682-150-01	(US,Canadian)...SCREW +P 3X12
89	7-682-545-04	SCREW +B 3X4
90	7-682-553-09	SCREW +B 3X20
91	7-682-555-04	SCREW +B 3X30
92	7-682-647-01	SCREW +PS 3X6
93	7-685-103-24	SCREW +P 2X5 TYPE2 SLIT
94	7-685-105-14	SCREW +P 2X8 TYPE2 SLIT
95	7-685-152-21	SCREW +P 3X25 TYPE2 SLIT
96	7-685-651-71	SCREW +BVTP 3X20 TYPE1
97	7-685-666-21	SCREW +BVTP 4X30 TYPE2 SLIT
98	7-685-871-09	SCREW +BVTT 3X6 (S)
99	7-688-003-11	W 3, MIDDLE
100	9-911-815-01	CUSHION
101	A-4608-277-A	ROTOR ASSY
102	A-4608-278-A	STATOR ASSY
103	A-4609-010-A	GEAR ASSY, DRIVING
104	A-4637-057-A	ROD ASSY, PUSH
105	X-4877-804-0	(US,Canadian,AEP,E,UK:BLACK) ...COVER ASSY, DUST
106 ♦	X-4877-805-5	(AEP,UK,E).....LEVER ASSY, MAIN
106 ♦	X-4877-805-6	(US,Canadian)...LEVER ASSY, MAIN
107	X-4880-501-0	PLATE ASSY, UP AND DOWN
108	X-4881-603-0	TURNTABLE ASSY
109	X-4881-605-1	SHAFT ASSY, ROTARY
110	X-4881-607-0	INSULATOR ASSY
111 ♦	3-703-845-01	(US,Canadian)..LABEL (N)(U/C), MAIN CAUTION
111	3-703-043-21	(UK).....LABEL, CAUTION, MAIN

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
151	3-701-616-00	BAG, POLYETHYLENE
152	3-701-630-00	BAG, POLYETHYLENE
153	3-701-634-00	BAG, POLYETHYLENE
154	3-701-806-00	ADAPTOR, 45, (E)
155	3-701-328-00	(BLACK)....LABEL, PRODUCT COLOR
156	3-773-848-11	(AEP,UK,E).....MANUAL, INSTRUCTION
157	3-773-848-21	(US,Canadian)...MANUAL, INSTRUCTION
158	3-773-848-31	(Canadian).....MANUAL, INSTRUCTION
159	3-773-848-41	(AEP)....MANUAL, INSTRUCTION
160	3-794-123-11	LABEL, CAUTION
161	4-862-680-00	(US,Canadian,AEP,E,UK:BLACK)...PROTECTOR
162	4-874-262-00	GUIDE, RECORD
163	4-876-352-00	(US,Canadian,AEP,E,UK:BLACK) ...SHEET, PROTECTION
164	4-877-807-11	SHEET, TURNTABLE
165	4-879-798-00	(UK)...SHEET, PROTECTION
166	4-881-647-00	HOLDER, TURNTABLE
167	4-881-669-00	(US,Canadian,AEP,E,UK:BLACK) ...CUSHION (LEFT)
168	4-881-670-00	(US,Canadian,AEP,E,UK:BLACK) ...CUSHION (RIGHT)
169	4-881-686-00	(UK:SILVER)...CUSHION
170	4-903-605-01	(US,Canadian,AEP,E,UK:BLACK) ...INDIVIDUAL CARTON
171	4-903-606-01	(UK:SILVER)...INDIVIDUAL CARTON

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	♦;1-508-800-13	U TYPE BASE POST 3P			
502	⚠.1-534-817-XX	(AEP)...CORD, POWER, EULO PLUG			
503	♦;1-535-115-00	TERMINAL			
504	♦;1-535-118-00	TERMINAL			
505	1-549-109-00	CARTRIDGE (WITH SHELL)(VL-42G)			
506	1-551-294-00	CORD			
507	⚠.1-526-565-00	(E3)...AC PLUG ADAPTOR			
508	⚠.1-551-472-00	(E).....CORD, POWER			
509	⚠.1-551-628-00	(US,Canadian)...CORD, POWER			
510	⚠.1-551-884-00	(UK:BLACK).....CORD, POWER			
511	⚠.1-551-963-00	(UK:SILVER).....CORD, POWER			
512	⚠.1-551-967-00	(UK:SILVER).....CORD, POWER			
513	1-556-044-11	LEAD (WITH TERMINAL)			
514	1-556-044-21	LEAD (WITH TERMINAL)			
515	1-556-044-31	LEAD (WITH TERMINAL)			
516	1-556-044-41	LEAD (WITH TERMINAL)			
517	♦;1-604-651-00	PC BOARD, POWER			
518	♦;A-4619-179-A	MOUNTED PCB, SERVO AMPLIFIER			
518	♦;1-607-275-00	PC BOARD, SERVO			
519	♦;1-607-276-00	PC BOARD, PHONO			
520	♦;1-607-277-00	PC BOARD, SWITCH			
521	♦;1-608-883-00	PC BOARD, FG			
522	♦;1-549-112-11	STYLUS TIP (ND-142G)			
C1	⚠.1-161-744-00	(AEP,UK,E).....CERAMIC	0.01MF		400V
C1	⚠.1-161-749-00	(US,Canadian)...CERAMIC	0.01MF		125V
C101	1-108-587-00	MYLAR	0.022MF	5%	50V
C102	1-123-297-00	ELECT	330MF	20%	6.3V
C103	1-161-330-00	CERAMIC	0.01MF	30%	25V
C104	1-130-885-00	FILM	0.15MF	5%	50V
C105	1-123-380-00	ELECT	1MF	20%	50V
C106	1-123-295-00	ELECT	100MF	20%	6.3V
C107	1-123-356-00	ELECT	10MF	20%	16V
C108	1-123-379-00	ELECT	0.47MF	20%	50V
C109	1-161-330-00	CERAMIC	0.01MF	30%	25V
C110	1-161-330-00	CERAMIC	0.01MF	30%	25V
C111	1-123-333-00	ELECT	100MF	20%	16V
C112	1-123-333-00	ELECT	100MF	20%	16V
C113	1-123-323-00	ELECT	470MF	20%	16V
C114	1-123-323-00	ELECT	470MF	20%	16V
C115	1-123-295-00	ELECT	100MF	20%	6.3V
C116	1-123-356-00	ELECT	10MF	20%	16V
C117	1-108-579-00	MYLAR	0.01MF	5%	50V
C118	1-108-587-00	MYLAR	0.022MF	5%	50V
D101	⚠.8-719-200-02	DIODE 10E-2			
D102	⚠.8-719-200-02	DIODE 10E-2			
D103	⚠.8-719-200-02	DIODE 10E-2			
D104	⚠.8-719-200-02	DIODE 10E-2			
D105	8-719-990-62	DIODE HZ6A2L			
H1	8-719-903-00	DIODE HL-300C			
H2	8-719-903-00	DIODE HL-300C			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
IC101	8-759-602-65	IC CX-065B			
IC102	8-759-145-58	IC UPC4558C			
IC103	8-759-145-58	IC UPC4558C			
Q101	8-729-177-43	TRANSISTOR 2SD774			
Q102	8-729-103-43	TRANSISTOR 2SB734			
Q103	8-729-177-43	TRANSISTOR 2SD774			
Q104	8-729-103-43	TRANSISTOR 2SB734			
Q105	8-729-663-47	TRANSISTOR 2SC1364			
R101	1-246-505-00	CARBON	22K	5%	1/4W
R102	1-247-083-00	CARBON	10	5%	1/4W
R103	1-247-155-00	CARBON	10K	5%	1/4W
R104	1-247-155-00	CARBON	10K	5%	1/4W
R105	1-247-179-00	METAL	100K	5%	1/4W
R106	1-247-171-00	METAL	47K	5%	1/4W
R107	1-247-147-00	CARBON	4.7K	5%	1/4W
R108	1-247-147-00	CARBON	4.7K	5%	1/4W
R109	1-247-131-00	CARBON	1K	5%	1/4W
R110	1-247-119-00	CARBON	330	5%	1/4W
R111	1-247-121-00	CARBON	390	5%	1/4W
R112	1-247-121-00	CARBON	390	5%	1/4W
R113	1-247-121-00	CARBON	390	5%	1/4W
R114	1-247-121-00	CARBON	390	5%	1/4W
R115	1-247-121-00	CARBON	390	5%	1/4W
R116	1-247-121-00	CARBON	390	5%	1/4W
R117	1-247-167-00	CARBON	33K	5%	1/4W
R118	1-247-167-00	CARBON	33K	5%	1/4W
R119	1-247-175-00	CARBON	68K	5%	1/4W
R120	1-247-175-00	CARBON	68K	5%	1/4W
R121	1-247-175-00	CARBON	68K	5%	1/4W
R122	1-247-175-00	CARBON	68K	5%	1/4W
R123	1-246-451-00	CARBON	120	5%	1/4W
R124	1-247-119-00	CARBON	330	5%	1/4W
R125	1-247-167-00	CARBON	33K	5%	1/4W
R126	1-246-545-00	CARBON	1M	5%	1/4W
RV101	1-226-234-00	RES, ADJ, CARBON 2K			
RV102	1-226-234-00	RES, ADJ, CARBON 2K			
RV103	1-226-238-00	RES, ADJ, CARBON 45K			
RV104	1-226-238-00	RES, ADJ, CARBON 45K			
RV105	1-224-661-00	RES, ADJ, METAL GLAZE 50K			
RV106	1-226-237-00	RES, ADJ, CARBON 20K			
RV107	1-226-237-00	RES, ADJ, CARBON 20K			
S1	⚠.1-561-657-00	(US,Canadian)...SWITCH, MICRO (POWER)			
S1	⚠.1-516-889-00	(AEP,UK,E).....SWITCH, MICRO (POWER)			
S2	1-552-928-00	SWITCH (SPEED)			
S3	⚠.1-552-535-00	(E)...SWITCH, POWER & VOLTAGE CHANGE			
T1	⚠.1-447-256-00	(US,Canadian)...TRANSFORMER, POWER			
T1	⚠.1-447-257-00	(AEP,UK).....TRANSFORMER, POWER			
T1	⚠.1-447-691-00	(E).....TRANSFORMER, POWER			

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

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